

ABSTRACT OF THE DISCLOSURE

A workpiece with transport porosity is formed. Nanopores are formed in the workpiece by a thermochemical treatment. The workpiece is formed as a rigid carbonaceous skeleton containing in its structure particles of one or more carbides, being selected and arranged in order to provide predetermined nanopore sizes, a predetermined volume of nanopores and a predetermined distribution of nanopores within the volume of the article dependent on its intended use.